

KBox E-100

FANLESS & RUGGED



FANLESS BOX PC WITH INTEL® BAY TRAIL SOC PROCESSOR

- ▶ 1x HDMI, 1x VGA for display output
- ▶ 2x GbE LAN for Ethernet
- ▶ 1x USB 3.0, 4x USB 2.0, 2x RS232/422/485, 2x RS232, 1x DIO for peripherals
- ▶ 1x 2.5" SATA 2.0 HDD / SSD Slot, up to 1x mSATA for storage
- ▶ Up to 2x mPCIe for expansion

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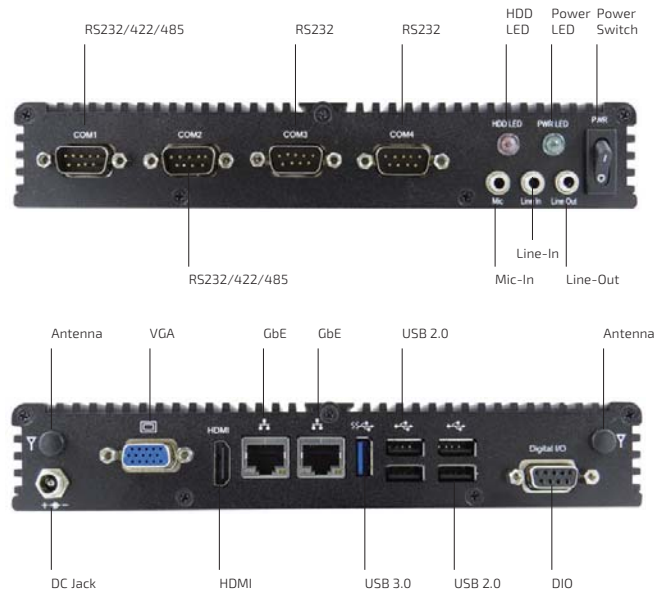
KBox E-100 is a fanless Box PC ideal for space critical applications. This embedded hardware platform is designed with Intel® Bay Trail Processor, Celeron® J1900 which delivers excellent performance. The system is supported with DDR3L SO-DIMM up to 8 GByte. Featured are 1x 2.5" SATA HDD / SSD, 2x mini-PCIe slots, 2x GbE

LAN, 4x USB 2.0, 1x USB 3.0, 1x HDMI, 4x COM, 1x VGA, and 1x DIO.

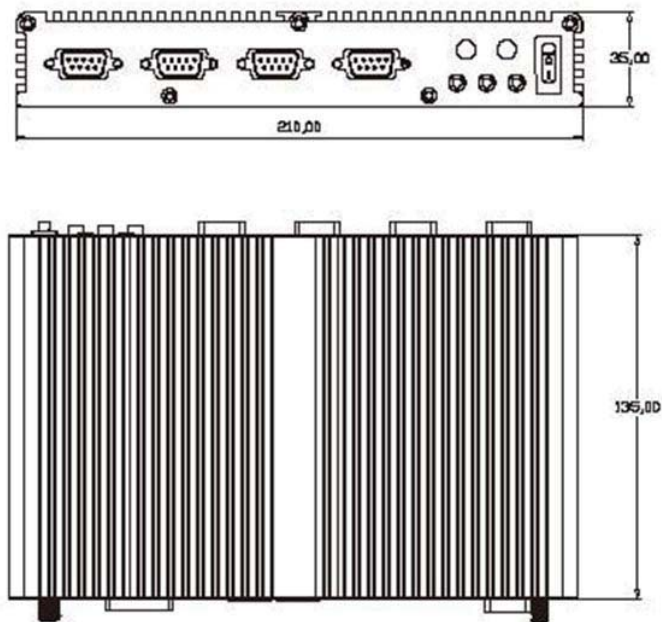
Enclosed within a rugged case, KBox E-100 has great protection against EMI, cold and heat. Also it is integrated with passive cooling design for quiet fanless operation.

▶ PRODUCT HIGHLIGHTS

- ▶ Intel® Bay Trail SoC Processor
- ▶ 1x DDR3L SO-DIMM memory socket
- ▶ 1x HDMI, 1x VGA for video output
- ▶ 2x GbE LAN for Ethernet
- ▶ 1x USB 3.0, 4x USB 2.0, 4x COM, 1x DIO for peripherals
- ▶ 1x 2.5" SATA HDD / SSD, up to 1x mSATA for storage
- ▶ Up to 2x mPCIe for expansion
- ▶ Passive cooling design without fans nor vents



▶ MECHANICAL DIMENSIONS



unit: mm

► TECHNICAL INFORMATION

System	Processor Memory	Intel® Celeron® J1900 (Quad Core, 2M Cache, up to 2.42 GHz, FCBGA1170, 10 W TDP) 1x DDR3L 1333 MT/S SO-DIMM up to 8 GByte
Video	Graphics Display Interface Multiple Display	Intel® HD Graphics 1x HDMI (on rear, 1920 x 1080 @ 60 Hz) 1x VGA (on rear, 2560 x 1600 @ 60 Hz) Dual
Audio	Audio Codec Audio Interface	Realtek ALC662 1x Line-in (on front) 1x Line-out (on front) 1x Mic-in (on front)
Network Connection	Ethernet	2x GbE LAN (RJ45 on rear, 1x Intel® I210-AT, 1x Realtek RTL8111G)
Peripheral Connection	USB Serial Port Other I/O Port	1x USB 3.0 (Type A on rear) 4x USB 2.0 (Type A on rear) 2x RS232/422/485 (DB9 on front) 2x RS232 (DB9 on front) 1x DIO (DB9 Female on rear)
Storage & Expansion		1x 2.5" SATA HDD / SSD 1x mSATA / mPCIe (full size) 1x mPCIe (full size) 1x SIM Card Cage (optional)
Power	Connector Input Voltage Power Adapter	Lockable DC Jack (on rear) DC 12 V AC to DC, 100 V - 240 V
Firmware	BIOS Watchdog H/W Monitor Real Time Clock TPM	AMI uEFI BIOS w/ 64 Mb SPI Flash Programmable WDT to generate system reset event Voltages, Temperatures SoC integrated RTC Optional (Infineon SLB 9635 TPM 1.2)
System Control & Monitoring	Button, Switch & Indicator	1x Power Switch (on front) 1x Power LED (on front) 1x Storage LED (on front)
Cooling	Cooling Method	Passive
Software	OS Support	Windows 7, Windows 8, Linux
Mechanical	Construction Dimensions (W x D x H) Weight Mounting	Aluminum Chassis 210 mm x 135 mm x 35 mm / 8.27" x 5.31" x 1.38" 1200 g / 2.65 lb VESAs Mount
Environmental	Operation Temperature Storage Temperature Humidity	0 °C ~ 50 °C / 32 °F ~ 122 °F -20 °C ~ 80 °C / -4 °F ~ 176 °F 0 % ~ 90 %
Certification	EMC & Safety	CE, FCC Class A

▶ ORDERING INFORMATION

ARTICLE	DESCRIPTION
KBox E-100	Intel® Celeron® J1900
OPTIONAL ACCESSORIES	
VESA MOUNTING KIT	Hole pattern: 100 mm x 100 mm & 75 mm x 75 mm

▶ GLOBAL HEADQUARTERS

KONTRON S&T AG

Lise-Meitner-Str. 3-5
86156 Augsburg, Germany
Tel.: + 49 821 4086 0
Fax: + 49 821 4086 111
info@kontron.com
www.kontron.com